

Solubility of Cellulose Acetate in Acetone, by  
P. V. Kozlov, and F. S. Sherman, 9 pp.

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Apr 1952, pp 384-391.

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Mendeleev Congress on General and Applied  
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Slonimsky, P. V. Kozlov.

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DSIR LLJ M.1497  
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kt 60  
cl - Chem

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60-18439

Kozlov, P. V. [Kubanov, V. A., and Frolova, A. A.]  
CERTAIN CORRELATIONS IN THE DEVELOPMENT  
OF UNIAXIAL DEFORMATION IN CRYSTALLINE  
AND VITREOUS FILMS OF POLYETHYLENE  
TEREPHTHALATE. [1960] 12p. 11 refs.  
Order from LC or SLA mi\$2.40, ph\$3.30 60-18439

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)  
1959, v. 1, no. 2, p. [324-329].

Polyethylene terephthalate was used to observe the  
uniaxial deformation of film in the glassy condition and  
of crystalline films. It was shown that the formation of  
the so-called "neck" which can take place in "cold  
stretching" of crystalline and in forced-elastic defor-  
mation of amorphous polymers is governed not by  
phase changes but has a purely relaxation character.  
The results obtained can be interpreted on the basis of  
the assumption of a "packet" structure of the crystal-  
line and the amorphous polymers developed by Kargin,  
Kitaigorodskii and Slonimskii (Kolloid. Zhur. 19: 131,  
1957) (Author)

- I. Ethylene polymers--  
Crystal structure  
I. Kozlov, P. V.  
II. Kubanov, V. A.  
III. Frolova, A. A.

Office of Technical Services

(Chemistry--Organic, TT,  
v. 5, no. 3)

Kozlov, P. V. and others.

STUDIES IN THE SPHERULITE STRUCTURE OF  
POLYMERS. III. A STUDY OF THE MICROSPHERU-  
LITE STRUCTURE OF POLYMERS BY ETCHING.  
[1960] 12p. 11 refs.

Order from SLA ml\$2.40, ph\$3.30

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Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)  
1960 [v. 2] no. 3, p. 421-426.

On the basis of the etching method used there were  
shown optical and electron microscopic studies of  
structures of microspherulites occurring in films of  
polyethylene sebacate obtained from solution. The  
separate coexistence in the microspherulite of poly-  
ethylene sebacate of crystalline and amorphous phases  
was established. The crystalline phase of the polymer  
is constituted of a helical-ribbon shaped packet of  
polymer chains composing the structural elements of  
the microspherulites themselves. The amorphous  
phase of the polymer consists of globular shapes not  
(Chemistry--Organic, TT, v. 5, no. 3) (over)

60-18427

1. Polymers--Crystal  
structure
2. Title: Spherulite structure
- I. Kozlov, P. V.
- II. Title: Study...

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THE EFFECT OF MOLECULAR WEIGHT ON THE  
TRANSITION TEMPERATURES OF THE POLYCAR-  
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carbonates. [1960] 9p.  
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(Physics--Molecular, TT, v. 5, no. 5)

61-12371

1. Polymers--Transition temperature
2. Carbonates--Transition temperature
3. Carbonates--Molecular weight
4. Molecular weight--Chemical effects
  - I. Kozlov, P. V.
  - II. Makaruk, L.
  - III. Title: Investigations...
  - IV. ATS-43M46R
  - V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

The Glass Transition Temperature of Cellulose,  
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4 pp.

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Kozlov, P. V., Iovleva, M. M. and others.  
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The state diagrams were studied of a series of grafted copolymers of diphilic type (starch-polystyrene, polyethylene terephthalate-polyacrylic acid) and grafted copolymers containing starting component having common solvents (polyisobutylene-polystyrene, polystyrene-polyvinyl acetate). In all cases the grafting causes lessening of the true solubility of the grafted copolymer as compared with the starting homopolymers. For the grafted copolymer from polystyrene and polyvinyl acetate the dissolution process is described by means of thermodynamical functions on the basis of data on integral mixing heat with benzene and hydrogenated monomers.

(Chemistry--Organic, TT, v. 5, no. 11) (over)

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1. Polymers--Solubility
2. Styrene polymers--Solubility
3. Starch--Solubility
4. Isobutene polymers--Solubility
5. Title: Graft copolymers
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- II. Iovleva, M. M.

Office of Technical Services

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Kozlov.  
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A. B. ...  
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